

# Veronica M. White (she/her)

Google Scholar: [user=E-D8maUAAAAJ&hl=en](https://scholar.google.com/citations?user=E-D8maUAAAAJ&hl=en) ○ Personal Website: <https://vmwhite.github.io/vwhite@eng.famu.fsu.edu> ○ (850) 410-6245 ○ <https://eng.famu.fsu.edu/ime/people/white>

## RESEARCH INTERESTS

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**Methodologies:** Queueing, simulation (discrete event), program evaluation (causal inference, statistical tests), optimization, implementation science.

**Application Areas of Interest:** public health and public safety (e.g., substance use, mental health, public policy, policing, healthcare access, criminal justice, homelessness)

**Statement:** My research interests involve modeling, developing, and evaluating interconnected systems that improve public health and safety outcomes via policies and programming. In the past, I used analytics, data science, and operations research approaches to the emerging intersection of policing and substance use disorder, where substance use disorder is a societal problem that impacts many disciplines/areas (e.g., social services, healthcare, criminal justice) and many populations (e.g., people with mental illness, people experiencing homelessness). In the future, I plan to continue to use these methodologies to provide insight into how to connect, implement, and improve public health programs to criminal justice issues.

## EMPLOYMENT

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**Assistant Professor, Industrial and Manufacturing Engineering** Start Date: Aug 2024  
FAMU-FSU College of Engineering, Tallahassee, FL

## EDUCATION

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**Ph.D. – Industrial & Systems Engineering** Aug 2024

University of Wisconsin-Madison

Dissertation: Mathematical modeling to support mental health-focused policing and substance use disorder treatment

Committee: Dr. Laura A. Albert (Chair), Dr. Gabriel Zayas-Cabán, Dr. Yonatan Mintz, Dr. Joel Hunt, and Dr. Marguerite Burns

**MS – Industrial & Systems Engineering** Spring 2019

University of Wisconsin-Madison

**BS – Industrial & Manufacturing Systems Engineering** *Magna cum Laude* 2017

Iowa State University of Science & Technology

## GRANTS

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### External

INFORMS DEI Ambassador Program, \$1,700 2023

INFORMS DEI Ambassador Program, \$1,930 2022

National Institute of Justice Research Assistant Program, \$32,000 2021

National Institute of Justice Research Assistant Program, \$80,260 2020

### Internal

*Crisis Prevention and Intervention Planning*, \$19,808, 5/2025 to 8/2025 2025

Florida State University Council on Research + Creativity First Year Assistant Professor Program

Student Research Grants Competition, \$600 2019

Conference Presentation Fund - University of Wisconsin-Madison

## PUBLICATIONS

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### Journal Publications

1. Nyland, J. E., Zhang, A., Balles, J. A., Nguyen, T. H., **White, V. M.**, Albert, L. A., Henningfield, M. F., & Zgierska, A. E. (2024). [Law enforcement-led, pre-arrest diversion-to-treatment may reduce crime recidivism, incarceration, and overdose deaths: Program evaluation outcomes](#). *Journal of Substance Use and Addiction Treatment*, 165, 209458. <https://doi.org/10.1016/j.josat.2024.209458>.
2. **White, V. M.**, Hunt, J., & Green, B.(2023). [A discussion of current crime forecasting indices and an improvement to the prediction efficiency index for applications](#). *Security Journal*. <https://doi.org/10.1057/s41284-023-00367-4>.
3. Zhang, A., Balles, J. A., Nyland, J. E., Nguyen, T. H., **White, V. M.**, & Zgierska, A. E. (2022). [The relationship between police contacts for drug use-related crime and future arrests, incarceration, and overdoses: a retrospective observational study highlighting the need to break the vicious cycle](#). *Harm Reduction Journal*, 19, 67. <https://doi.org/10.1186/s12954-022-00652-2>
4. **White, V. M.**, Avendano, S. A., Albert, L. A., Zgierska, A.E., Balles J., & Zayas-Cabán G. (2021). [The impact of a community-level initiative that promotes engagement in addiction treatment on recidivism](#). *Drug and Alcohol Dependence*, 227. DOI: 10.1016/j.drugalcdep.2021.108915
5. Zgierska, A. E., **White, V. M.**, Balles, J., Nelson, C., Freedman, J., Nguyen, T. H., & Johnson, S. C. (2021). [Pre-arrest diversion to addiction treatment by law enforcement: protocol for the community-level policing initiative to reduce addiction-related harm, including crime](#). *Health & Justice*, 9(1), 1-9. DOI: 10.1186/s40352-021-00134-w
6. Yoon, S., Albert, L. A., & **White, V. M.** (2021). [A stochastic programming approach for locating and dispatching two types of ambulances](#). *Transportation Science*, 55(2), 275-296. DOI: 10.1287/trsc.2020.1023
7. **White, V. M.**, Molfenter, T., Gustafson, D. H., Horst, J., Greller, R., Kim, J. S., ... & Toy, A. (2020). [NIA Tx-TI versus typical product training on e-health technology implementation: a clustered randomized controlled trial study protocol](#). *Implementation Science*, 15(1), 1-12. DOI: 10.1186/s13012-020-01053-4
8. Lee, S., Wei, S., **White, V.**, Bain, P., Baker, C., & Li, J. (2020). [Classification of opioid usage through semi-supervised learning for total joint replacement patients](#). *IEEE Journal of biomedical and health informatics*, 25(1), 189-200, Jan. 2021. DOI: 10.1109/JBHI.2020.2992973

### Conference Proceedings

9. **White, V. M.** & Albert, L. A. (2024). [Alternative police response models to crisis calls](#). In *Proceedings of the IISE Annual Conference & Expo*. May 18 – 21. Montreal, Canada.

10. White, V. M., & Hunt, J. (2022). [Measuring how relatively “good” a hot-spot map is: A summary of current metrics](#). In Proceedings of the *IISE Annual Conference & Expo*. May 20 – 24. Seattle, WA.
11. Mittal, A., White, V. M., & Krejci, C. (2017). [A framework for collaboration among regional food system participants](#). In Proceedings of the *Industrial & Systems Engineering Research Conference*. May 20 - 23. Pittsburgh, PA.

### **Government Reports**

12. White, V. M., Rief, R., Hudgins, C. D., Pimsler, M., & Hunt, J. (2025). [A Synthesis of the 2021 NIJ Forecasting Challenge Winning Reports](#). *National Institute of Justice*. NCJ: 309826.
13. Johnson, T. L, Lopez, B. E., McGrath, J., Hudgins, C. D., Pimsler, M. L., and White, V. M. (2024). [Introducing the NIJ Forensic Intelligence Framework: Pillars and Guiding Principles for Successful Implementation](#). *National Institute of Justice*. NCJ: 309128.
14. Hudgins, C. D., White, V. M., Kane, R., & O’Brien, M (2024). [Sentinel Event Review for Successful Transition and Reentry Together \(START\) Program in the Eastern District of Wisconsin](#). *National Institute of Justice*. NCJ: 307990.
15. National Institute of Justice. Nov. (2023). [Understanding Forensic Intelligence: The NIJ Framework](#). NCJ: 307773. (co-author to the five pillars of Forensic Intelligence section).
16. White, V. M., Applegarth, M., Hudgins, C., & Hunt, J. (2022). [The NIJ Recidivism Forecasting Challenge: Contextualizing the Results](#). *National Institute of Justice*. NCJ: 304110.
17. Hudgins, C. D., White, V. M., & Martin, E. Advancing Evidence-Based Practices in Criminal Justice with Implementation Science. *National Institute of Justice*. (In Peer Review).

### **Submitted and Working Papers**

18. White, V. M. & Albert, L. A. (2024). [Evaluating diversion and treatment policies for opioid use disorder](#). arXiv. Preprint. <https://arxiv.org/abs/2311.05076>. (Accepted pending Major Revision).
19. White, V. M. & Albert, L. A. Evaluating police co-response models for crisis calls. (Working paper)
20. Rico, M. C., Albert L. A., & White V. M. On Locating Prescription Drug Collection Boxes. (Working paper)

### **Handbooks and Guides**

21. White, V.M., Haseltine, C., & Ogidigben, M. (2023). [INFORMS Student Chapter Student Chapter K-12 Outreach Guide](#). INFORMS Outreach Strategic Initiative. INFORMS DEI Ambassador Program.

### **PRESENTATIONS**

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\* Indicates Presenting Author(s)

#### **Panelist**

22. Substance Use Disorders and Other Stigmatized Medical Needs. 2024 INFORMS Annual Meeting. WORMS Sponsored Session. Seattle, WA.

#### **Conference Presentations**

23. White, V. M.\* & Albert, L. A. Evaluating co-response models for crisis calls. 2024 INFORMS Annual Meeting. Oct. 20-23. Seattle, WA.

24. **White, V. M.\***, Applegarth, M., Hudgins, C., & Hunt, J. [The NIJ Recidivism Forecasting Challenge: Contextualizing the Results](#). 2023 ASC Annual Meeting. Nov. 15-18<sup>th</sup>. Philadelphia, PA.
25. **White, V. M.\*** & Albert, L. A. Opioid Treatment Policies Using Discrete Event Simulation. 2023 INFORMS Annual Meeting. Oct. 15-18. Phoenix, AZ.
26. **White, V. M.\***, Ogidigben, M.\*, & Haseltine, C. A.\*, Strategic Initiative: High School Outreach Flash Talk. 2023 INFORMS Annual Meeting. Oct. 15-18. Phoenix, AZ.
27. **White, V. M.\*** & Albert, L. Diversion and Treatment Policies for Opioid Use Disorder: A Discrete Event Simulation Approach. 2022 INFORMS Annual Meeting. Oct. 16-19. Indianapolis, IN.
28. **White, V. M.\***, Ogidigben, M.\*, Haseltine, C. A.\*, & Scaria, E., Strategic Initiative: High School Outreach Flash Talk. 2022 INFORMS Annual Meeting. Oct. 16-19. Indianapolis, IN.
29. **White, V. M.\*** & Albert, L. Analyzing Police Response Models with Multiple Types of Vehicles. 2022 International Association of Crime Analysts. August 22–26. Chicago, IL.
30. **White, V. M.\*** & Hunt, J. Measuring how relatively “good” a hot-spot map is: A summary of current metrics. 2022 IISE Annual Conference & Expo. May 20–24. Seattle, WA.
31. **White, V. M.\*** & Albert, L. Discrete Event Simulation for Modeling Addiction Treatment Public Policy Changes in Dane County, Wisconsin. 2021 INFORMS Annual Meeting. Oct. 24-27. Virtual.
32. **White, V. M.\***, Zayas-Cabán, G., Alvarez, S. A., & Albert, L. The Impact of a Community-level Initiative That Promotes Engagement In Addiction Treatment On Crime Reduction. *2020 INFORMS Annual Meeting*. Nov. 8-13. Virtual.
33. Mittal, A.\*, **White, V. M.\***, & Krejci, C. C. (2017). A Framework for Collaboration among Regional Food System Participants. At the *Industrial & Systems Engineering Research Conference*. May 20 - 23. Pittsburgh, PA.
34. Mittal, A.\*, **White, V. M.\***, Craven, T.\*, Grimm, J., & Krejci, C. C. (2016). Regional Food Hub Coordination Inventory Management System. At the *2016 Annual Iowa Organic Conference*. Nov. 13 - 14. Iowa City, IA.

#### **Project-Related Stakeholder Presentations**

35. “Operations Research Meets Criminal Justice.” May 2021. *Let’s RAP! Series*. National Institute of Justice, Washington, D.C. (Virtual).
36. “Amazon Devices Fulfillment Center Allocation Solver.” Aug. 2020. *Internship Project Report Out*. Amazon Inc. Seattle, WA. (Virtual).
37. “Preliminary MARI Outcomes Analysis.” Feb. 2020 & Jun. 2019 at the *MARI Operations Team Monthly Meeting*. Madison, WI.
38. “Counselor Training for RISE-Iowa Mobile Substance Use Disorder (SUD) Treatment Application.” Fall 2019-Spring 2020 as a part of an implementation RCT. Multiple SUD clinic locations across Iowa.
39. “Predicting Opioid Prescription Level Post TJR Surgery.” (2018). At the *Opioid Task Force Meeting*. Jan. 11. Madison, WI.
40. “Iowa Food Hub Collaboration Network” with Mittal A. (2017). At the *Iowa & Michigan Food Hub Managers Working Group Meeting*. May 9 - 10. West Union, IA.

#### **Poster Presentations**

41. **White, V. M.\***, Meredith, M.\*, & Albert, L. Evaluation of a Two-Year Policing Initiative. *2019 INFORMS Annual Meeting*. Oct. 20 – 23. Seattle, Washington.
42. Nguyen, T.\*, Zgierska, A., & **White, V.** (2019) Madison Addiction Recovery Initiative. *NAPCRG 2019 Practice-based Research Network Conference*. Jun. 24-26. Bethesda, Maryland.
  - ❖ Award: Runner-up Best Poster
43. **White, V. M.\***, Mittal, A., & Krejci, C. C. (2017). [Inventory Tracking for Iowa's Regional Food Network](#). Poster presented at the *Industrial Advisory Board Meeting*. Apr. 20. Industrial & Manufacturing Systems Engineering, Iowa State University, Ames, IA.

### **TEACHING EXPERIENCE** – UGS: Undergraduate students, GDS: Graduate students

**Instructor:** At FAMU-FSU College of Engineering, I was the main instructor for these courses.

- ESI 4523 Simulation of Industrial Engineering Systems – UG, 27 students Spring 2025

**Teaching Assistant:** At the University of Wisconsin-Madison, I held twice-weekly office hours and provided regular feedback to students. Courses ranged from 40 students to over 100 students. For the 300 level courses I prepared and facilitated 2-3 weekly discussion sections to summarize and practice course material with 25-35 students each.

- I SY E 320 – Discrete Event Simulation Modeling – 35 UGS Spring 2024
- I SY E 323 – Operations Research: Deterministic Modeling ~ 60 UGS Spring/Fall 2018
- I SY E 524 – Introduction to Optimization ~ 30 GDS Summer 2018
- I SY E 313 – Engineering Economic Analysis – 30-60 UGS Fall 2017, Summer 2018

**Guest Lecturing:** At the University of Wisconsin-Madison.

- I SY E 524 – Introduction to Optimization – 75 min ~ 60 GDS
  - June 17th & 19th, 2019 — Course Introduction & Review of Linear Algebra
- I SY E 323 – Operations Research: Deterministic Modeling – 75 min ~ 65 UGS
  - Nov. 6, 2018 — Integer Programming
  - Apr. 26, 2018 — the Branch and Bound Algorithm

**Tutor:** At Iowa State University, I worked with five groups of 3-6 UGS. Each group met bi-weekly and worked through example problems and student questions.

- Statistics 231 – Introduction to Statistical Concepts & Methods Fall 2016, Spring 2017
- Physics 222 – Introduction to Classical Physics 2 Fall 2016, Spring 2017

**Supplemental Instruction Leader:** At Iowa State University, I facilitated 3-4 open weekly sessions of 2-20 students. Conducted open exam reviews of 30-100+ students. Created practice material available at sessions and online. Participated in workshops that taught communication and facilitation techniques.

- Engineering 160 – Engineering Problems Fall 2015, Spring 2016
- Economics 101 – Principals of Microeconomics Fall 2014

### **RESEARCH MENTORING**

#### **Graduate Students**

- Alexis Andaverde (Ph.D. Advisee), Ph.D. Student, FAMU IME, Fall 2024 to present
- Monica Rico, Ph.D. Student, UW–Madison ISYE, Fall 2023 to present

#### **Undergraduate Students**

- FSU UROP, Fall 2024 to present  
 “Aiding Decision-Making for Behavioral and Mental Health Crisis Response.”

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- Sarah Keith
- Caleb Valenzuela
- Toni Levisman
- Maia Gleizer
- Julia Krostich
- Colleen Wall, UW–Madison ISYE, Summer - Fall 2021  
“*Time-Series Modeling of Opioid-Related Hospital Encounters*”
  - ❖ Awarded 3<sup>rd</sup> in OR/MS Tomorrow 2021 Mini-Poster Competition
- Meghan Meredith, UW–Madison ISYE, Spring 2018 - Spring 2019  
“*Literature Review and Statistical Analyses of a Community Policing Initiative*”
- Praan Pisitthakarn, UW–Madison ISYE & CHESS, Spring 2019  
“*VBA Graphs for an Addiction Mobile Treatment Implementation RCT*”

## PROFESSIONAL DEVELOPMENT

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### Colloquia, Seminars, and Workshops:

- IISE Program — Future Faculty Fellows (3F), Nov. 2021 to May 2022
- INFORMS 2021 Doctoral Student Colloquium, Oct 23, 2021

### Courses and Trainings:

- Delta Program Book club — Black Brown Bruised by Ebony McGee, Spring 2021
- Delta Program — Research Mentor Training, Summer 2019
- CIRTL Network course — Diversity in the College Classroom, Spring 2019

## SERVICE

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- Session Chair** – “Policing and the Opioid Crisis” Oct. 2023  
*INFORMS Annual Meeting 2023 – Phoenix, AZ*
- Committee Member** of Graduate Student Advisory Committee (GSAC) Nov. 2020 to Jul. 2024  
*College of Engineering – University of Wisconsin Madison*
- Ad Hoc Reviewer** Aug. 2020 to Aug. 2023  
*Implementation Science*
- Cluster Member** of Student and Alumni Affairs (SAA) Cluster Dec. 2020 to Dec. 2022  
*Industrial and Systems Engineering Department – University of Wisconsin-Madison*
- Session Co-Chair** with Adam Schmidt, “Simulation Applications for Public Policy” Oct. 2021  
*INFORMS Annual Meeting 2021*
- Grant Reviewer** for Chapter Development Fund Jun. 2021 to Aug. 2021  
*National Science Policy Network (NSPN)*
- Vice President** May 2019 to Apr. 2020  
*INFORMS Student Chapter– University of Wisconsin Madison*
- Scribe** – Wisconsin Institute for Healthcare Systems Engineering Conference May 2018
- Pi Mile Run Co-Coordinator** Oct. 2018 to Apr. 2019  
*Tau Beta Pi Engineering Honors Society – University of Wisconsin-Madison*
- Managed, fundraised, and secured permits and venue for local 5k/10k that hosted 100 runners and raised over \$2,000 for Occupaws Guide Dog Association
- Vice President** Jan. 2016 to May 2017  
*Tau Beta Pi Engineering Honors Society – Iowa State University*
- Led committee to compete in SourceAmerica’s 2016-2017 Design Challenge
  - Oversaw projects team, which organizes several community-wide events each semester

- Collaborated with the Advisory board to provide direction and new ideas for the chapter  
**Vice President of Membership Development** Jan. 2015 to Dec. 2015  
*Iowa Gamma Chapter of Pi Beta Phi – Iowa State University*
- Developed and implemented a new Academic Program for the 170-member chapter
- Organized events such as Faculty Appreciation Night, values-based workshops, etc.

## MEDIA AND PRESS

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### Social Media

- Personal Blog: <https://vmwhite.github.io/blog.html>
- Twitter Handle: [@VeronicaMWhite](#)
- Awarded [Best Tweet](#) of ACM EAAMO 2021 Conference

### News Articles

- [Increasing Underrepresented Students' Exposure to OR/MS through K-12 Outreach](#) – OR/MS article
- [What's Your StORy? Veronica White](#) – OR/MS Today Series
- [Results from the National Institute of Justice recidivism forecasting challenge](#) – Corrections Today – March/April 2022, pages 12-16
- [MARI reduces six-month recidivism odds](#) –The Capital Times News – Madison, WI

### Other Press and News

- [Why Operations Research? Reflecting on Our Journeys to Becoming Ph.D. students in Operations Research](#) – INFORMS DEI Blog Post
- [Graduate students work to bolster diversity in operations research](#) – by *Thomas Ziemer*
- [New study reveals efficacy of Madison's addiction recovery initiative](#) – Radio Interview with WORT 89.9 FM's *Jonah Chester*
- [Study shows effectiveness of substance-use diversion program](#) – by *Thomas Ziemer*
- [The food hub managers working group](#) – by *Savanna Lyons*
- [Local foods program supports food hubs across Iowa](#) – by *Teresa Wiemerslage*

## HONORS AND AWARDS

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INFORMS DEI Ambassador	Spring 2022 & Spring 2023
DAS/SDP Decision Analysis Practice Award, Finalist	Fall 2022
IISE Future Faculty Fellows (3F) Program	Spring 2022
National Institute of Justice Research Assistant Program Fellowship	Fall 2020 & Fall 2021
Rea & Gustafson Fellowship	Fall 2019
Chancellor's Opportunity Award	Fall 2017
REOMAC Foundation Scholarship	Fall 2015
Wallace Scholar	Fall 2014
Tau Beta Pi – Iowa Alpha Scholar	Fall 2014
Award for Competitive Excellence	Fall 2013
Dean's List Iowa State University	Fall 2013 – Spring 2017
Top 2% of Graduating Class	Fall 2013

## INDUSTRY EXPERIENCE

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<b>DIAL OR Scientist Intern, see [36]</b> <i>Amazon – Virtual – Seattle, WA</i>	Summer 2020
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- Created a new solver that separated the final optimization model from the primary Amazon Devices Solver, allowing it to be solved separately and repeatedly
- Improved several constraints of the separated model
- Communicated the new solver's purpose and its logic to various stakeholders such as my team, demand planning team, and contractors in the supply chain for the primary model.
- Researched methods to improve optimization solver times
- Documented solver's inner workings for the technical team & larger Amazon audience

**Corporate Quality Engineering Intern**

Summer 2016 &amp; Summer 2017

*Shure Incorporated – Niles, IL*

- Utilized Minitab to analyze a destructive gauge R&R, Salt-fog study using ANOVA, etc.
- Used hypothesis & accelerated-life testing to evaluate new product reliability
- Implemented a new overseas data collection system
- Created 7 test plans for product approval and conducted analyses on results

**Safety and Ergonomic Intern**

January 2015 to August 2015

*Lennox Industries Inc. – Marshalltown, IA*

- Led the Joint Ergonomics Committee in completing over 23 projects
- Aided in 3 Rapid Continuous Improvement projects that lead to ergonomic improvements
- Completed 85 Washington Ergonomic Assessments for various work cells

**ORGANIZATIONS AND INTERESTS**

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INFORMS: Women in OR/MS (WORMS) Forum, Minority Issues Forum (MIF), Optimization Society, Decision Analysis Society (DAS), Analytics Society, Simulation Society, Public Sector OR Section, Service Science Section, Multiple Criteria Decision-Making Section, Junior Faculty Interest Group

Institute of Industrial and Systems Engineers (IISE)

Tau Beta Pi (TBP) – Engineering Honors Society

NSPN – National Science Policy Network